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BEVER HOFFMAN & HARMS, LLP 2099 GATEWAY PLACE			ZIA, S	ZIA, SYED	
SUITE 320	VAY PLACE	,	ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95110			2131		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/086,029	CAM-WINGET ET AL.			
		Examiner	Art Unit			
•		Syed Zia	2131			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. I period for reply is specified above, the maximum statutory period to re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from to become ABANDONED	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a)□	Responsive to communication(s) filed on <u>27 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)□ 7)□ 8)□	Claim(s) 1-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) 1-41 is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.				
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10)[The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to be a second to be a seco	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:				

Application/Control Number: 10/086,029

Art Unit: 2131

This office action is in response to application filed on February 27, 2002. Original application contained Claims 1-41. Therefore, presently pending claims are 1-41.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-41 rejected under 35 U.S.C. 102(b) as being anticipated by Gray et al. U. S. Patent 5,706,348.

Regarding Claim 1, Gray teach and describe a method for encrypted communications between a first transceiver and a second transceiver, the method comprising: sending from a first transceiver to a second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets (col.3 line 48 to col.5 line 39).

Application/Control Number: 10/086,029

Art Unit: 2131

Regarding Claim 26, Gray teach and describe a first transceiver that is to conduct encrypted communications with a second transceiver, the first transceiver comprising: a physical control layer that sends to the second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets (col.3 line 48 to col.5 line 39).

Regarding Claim 37, Gray teach and describe a first transceiver that is to conduct encrypted communications with a second transceiver, the first transceiver comprising:

a physical control layer that receives from the second transceiver a request to initiate derivation of a new encryption key, the request to initiate a new encryption key derivation being controlled by a MAC sub-layer and including an exchange threshold indicative of when the new encryption key is to be used to encrypt communication packets, and a first nonce needed to derive the new encryption key (col.3 line 48 to col.5 line 39).

Claims 2-7, 10, 12, 14-15, 18, 27-34, 36, and 38-40are rejected applied as above rejecting Claims 1, 26, and 37. Furthermore,

As per claim 2-5, wherein the exchange threshold is: a time, a counter value, a number of packets, at least one of a time, a counter value, and a number of packets (col. 3 line 48 to col.4 line 40).

As per claim 6, wherein the request to initiate derivation of the new encryption key includes a timeout limit that indicates that a session is to be at least one of aborted or retried when the timeout limit is satisfied (col. 3 line 48 to col.4 line 40).

As per claim 7, wherein the request to initiate derivation of the new encryption key is sent from the first transceiver to the second transceiver and the new encryption key is to be generated at the second transceiver, in response to the request, before a key space of an old nonce value has been exhausted (col. 5 line 56 to col.6 line 8).

As per claim 8, wherein the request to initiate derivation of the new encryption key includes a first nonce needed to derive the new encryption key (col. 5 line 40 to line 48).

As per claim 10, wherein the request to initiate derivation of the new encryption key includes a first transceiver authentication indication that authenticates the first transceiver to the second transceiver (col. 5 line 56 to col.6 line 8).

As per claim 12, wherein the request to initiate derivation of the new encryption key includes a new initial nonce value that is used along with the new encryption key for encryption (col.6 line 55 to col.7 line 46).

As per claim 14, further comprising: determining whether the new encryption key needs to be derived; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col.6 line 55 to col.7 line 46).

As per claim 15, further comprising: generating the new encryption key at the first transceiver and the second transceiver; determining at least one of the first transceiver and the second transceiver whether the exchange threshold has been satisfied; and encrypting at least one of the

first transceiver and the second transceiver using the new encryption key when the exchange threshold has been satisfied (col.4 line 60 to col.5 line 40).

As per claim 18, wherein the request to initiate derivation of the new encryption key includes a first nonce needed to derive the new encryption key, the method further comprising: sending from a second transceiver to the first transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce needed to derive the new encryption key (col. 4 line 41 to col.5 line 39).

As per claim 27, wherein the exchange threshold is a number of packets (col. 3 line 48 to col.4 line 40).

As per claim 28-30, wherein: the request includes a first transceiver identifier that authenticates the first transceiver to the second transceiver, the request to initiate derivation of the new encryption key includes a timeout limit that indicates that a session is to be at least one of aborted or retried when the timeout limit is satisfied, the request to initiate derivation of the new encryption key includes a first nonce needed to derive the new encryption key (col. 4 line 41 to col.5 line 39).

As per claim 31, wherein the request to initiate derivation of the new encryption key includes a first transceiver authentication indication that authenticates the first transceiver to the second transceiver (col. 4 line 41 to col.5 line 39).

As per claim 32, wherein the request to initiate derivation of the new encryption key includes a new initial nonce value that is used in combination with the new encryption key for encryption (col. 5 line 14 to line 39).

As per claim 33, wherein the physical control layer determines whether the new encryption key needs to be derived before sending the request to initiate derivation of the new encryption key; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col. 4 line 41 to col.5 line 39).

As per claim 34, wherein the physical layer receives a second nonce from the second transceiver, generates the new encryption key, determines whether the exchange threshold has been satisfied, and encrypts using the new encryption key when the exchange threshold has been satisfied (col. 4 line 41 to col.5 line 39).

As per claim 36, wherein the physical control layer sends the request early enough so that the new encryption key is to be generated at the second transceiver, in response to the request, before a key space of an old nonce value has been exhausted (col. 4 line 41 to col.5 line 39).

As per claim 38, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce (col. 4 line 60 to col.5 line 39).

As per claim 39, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a status indication indicative of the first transceiver's determination of the feasibility of being able to commence using the new

encryption key at the first transceiver in accordance with the exchange threshold (col. 4 line 60 to col.5 line 39).

As per claim 40, wherein the physical control layer generates the new encryption key determines whether the exchange threshold has been satisfied, and encrypts using the new encryption key when the exchange threshold has been satisfied (col. 3 line 40 to col.5 line 39).

5. Claims 9, 11, 13, 16, 19, and 35 are rejected applied as above rejecting Claims 8, 10, 12, 15, 18, and 34. Furthermore

As per claim 9, further comprising: sending from a second transceiver to the first transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce needed to derive the new encryption key (col. 4 line 41 to col.5 line 39).

As per claim 11, further comprising sending from the second transceiver to the first transceiver, in response to the request to initiate derivation of the new encryption key, a second transceiver authentication indication which authenticates the second transceiver to the first transceiver (col. 4 line 41 to col.5 line 39).

As per claim 13, further comprising: sending from a second transceiver, in response to the request to initiate derivation of the new encryption key, a status indication indicative of the second transceiver's determination of the feasibility of being able to commence using the new encryption key at the second transceiver in accordance with the exchange threshold (col. 4 line 41 to col.5 line 39).

As per claim 16 further comprising: continuing communication between the first transceiver and the second transceiver using for encryption an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 4 line 41 to col.5 line 39).

As per claim 19, further comprising: generating at least one of the first transceiver and the second transceiver the new encryption key; determining at least one of the first transceiver and the second transceiver whether the exchange threshold has been satisfied; and encrypting at least one of the first transceiver and the second transceiver using the new encryption key when the exchange threshold has been satisfied (col. 4 line 60 to col.5 line 39).

As per claim 35, wherein the physical control layer continues using for encryption an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 3 line 40 to col.5 line 39).

As per claim 38, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a second nonce (col.4 line 41 to col.5 line 39).

As per claim 39, wherein the physical control layer sends to the second transceiver, in response to the request to initiate derivation of the new encryption key, a status indication indicative of the first transceiver's determination of the feasibility of being able to commence using the new encryption key at the first transceiver in accordance with the exchange threshold (col. 3 line 40 to col.5 line 39).

As per claim 41, wherein the physical control layer continues communication between the first transceiver and the second transceiver using for encryption an old encryption key generated before the new encryption key when the exchange threshold has still not been satisfied (col. 3 line 40 to col.5 line 39).

6. Claims 17, 20-25 are rejected applied as above rejecting Claims 16, 19. Furthermore

As per claim 17, wherein encrypting using the new encryption key occurs without disrupting communication between the first transceiver and the second transceiver (col. 4 line 41 to col.5 line 39).

As per claim 20, wherein the request to initiate derivation of the new encryption key includes a new initial nonce value and encrypting includes using the initial nonce value and the new encryption key for encryption, the method further comprising: determining whether the new encryption key needs to be derived; and wherein sending the request to initiate derivation of the new encryption key is based upon the determination of whether the new encryption key needs to be derived (col. 4 line 41 to col.5 line 39).

As per claim 21, the method comprising: sending from first receiver to the second transceiver a first transceiver authentication indication that authenticates the first transceiver to the second transceiver; and sending from the second transceiver to the first transceiver a second transceiver authentication indication that authenticates the second transceiver to the first transceiver (col. 4 line 41 to col.5 line 39, and col.5 line 65 to col.6 line 8)).

As per claim 22, further comprising sending from the first transceiver to the second transceiver

the second nonce (col. 4 line 41 to col.5 line 39).

As per claim 23 further comprising: continuing communication between the first transceiver and

the second transceiver using an old encryption key generated before the new encryption key

when the exchange threshold has still not been satisfied (col. 4 line 41 to col.5 line 39, and col.5

line 65 to col.6 line 8).

As per claim 24, wherein encrypting using the new encryption key occurs without disrupting

communication between the first transceiver and the second transceiver col. 4 line 41 to col.5

line 39).

As per claim 25, wherein the request to initiate derivation of the new encryption key includes a

timeout limit that indicates that a communication is one of aborted and retried when the timeout

limit is satisfied (col. 4 line 41 to col.5 line 39).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Syed Zia whose telephone number is 571-272-3798. The

examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 20, 2000